VMWare Accessibility Conformance Report

VPAT® Version 2.1 – March 2018

Name of Product/Version: VMware Host Client, version vSphere 6.7

Product Description: The VMware Host Client is an HTML5-based client that is used to connect to and manage single ESXi hosts. You can use the VMware Host Client to perform administrative and basic troubleshooting tasks, as well as advanced administrative tasks on your target ESXi host. You can also use the VMware Host Client to conduct emergency management when vCenter Server is not available. It is important to know that the VMware Host Client is different from the vSphere Client, regardless of their similar user interfaces. You use the vSphere Client to connect to vCenter Server and manage multiple ESXi hosts, whereas you use the VMware Host Client to manage a single ESXi host. For more information, see the VMware product documentation at https://docs.vmware.com.

Date: July 2018

Contact information: 877-486-9273

Note: You can access vSphere components through the vSphere Client, the vSphere Web Client, the VMware Host Client, and the vSphere Command-Line Interface. For more information, see <u>Client Interfaces</u> <u>for vSphere</u>. You can review the vSphere product documentation at https://docs.vmware.com.

Evaluation Methods Used: Testing VMware Host Client involved extensive use of leading assistive technology, such as screen readers (JAWS 2018), and speech recognition software, as well exclusive use of

the keyboard. Native platform accessibility features were also used to assist with testing. These were supplemented with techniques, such as manual inspection of Accessibility API output.

Applicable Standards/Guidelines

This report covers the degree of conformance for the following accessibility standard/guidelines:

Standard/Guideline	Included in Report
Web Content Accessibility Guidelines 2.0, at	Level A (Yes)
http://www.w3.org/TR/2008/REC-WCAG20-20081211/	Level AA (Yes)
	Level AAA (No)
Revised Section 508 standards as published by the U.S. Access Board in the Federal Register on January 18, 2017 Corrections to the ICT Final Rule as published by the US Access Board in the Federal Register on January 22, 2018	(Yes)
EN 301 549 Accessibility requirements suitable for public procurement of ICT products and services in Europe, - V1.1.2 (2015-04) at http://mandate376.standards.eu/standard	(Yes)

Terms

The terms used in the Conformance Level information are defined as follows:

- **Supports**: The functionality of the product has at least one method that meets the criterion without known defects or meets with equivalent facilitation.
- **Supports with Exceptions**: Some functionality of the product does not meet the criterion.
- **Does Not Support**: The majority of product functionality does not meet the criterion.
- Not Applicable: The criterion is not relevant to the product.
- Not Evaluated: The product has not been evaluated against the criterion. This can be used only in WCAG 2.0 Level AAA.

WCAG 2.0 Report

Tables 1 and 2 also document conformance with:

• Revised Section 508: Chapter 5 – 501.1 Scope, 504.2 Content Creation or Editing, and Chapter 6 – 602.3 Electronic Support Documentation.

Note: When reporting on conformance with the WCAG 2.0 Success Criteria, they are scoped for full pages, complete processes, and accessibility-supported ways of using technology as documented in the WCAG 2.0 Conformance Requirements.

Table 1: Success Criteria, Level A

Criteria	Conformance Level	Remarks and Explanations
1.1.1 Non-text Content (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Does Not Support	 Web: A rating of Does Not Support has been given for the following reasons: The graph for monitoring performance includes information about time that isn't reflected in the table. Multiple images across the site lack alternative text, including the green arrow in the Install Update modal, and the VMware and ESXi logo images. CSS background image checkmarks are used for completed tasks in multiple pages.
1.2.1 Audio-only and Video-only (Prerecorded) (Level A) Also applies to: 2017 Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs)	Web: Supports	Web: No prerecorded audio-only or prerecorded video-only media occurs on the site.
1.2.2 Captions (Prerecorded) (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports	Web: No prerecorded audio-only or prerecorded video-only media occurs on the site.
1.2.3 Audio Description or Media Alternative (Prerecorded) (Level A)	Web: Supports	Web: No prerecorded video-only media occurs on the site.

Criteria	Conformance Level	Remarks and Explanations
Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)		
1.3.1 Info and Relationships (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Does Not Support	 Web: A rating of Does Not Support has been given for the following reasons: Programmatic labels are missing for most inputs on the site, such as checkboxes in tables across the site, dropdowns for Compatibility, Guest OS Family, Guest OS Version Inputs for Virtual Hardware options. Implicit headings occur on many pages, including for table headings. Data tables are made of two tables, one for table headings and one for the actual data.
1.3.2 Meaningful Sequence (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports	Web: A correct reading sequence can be programmatically determined on the site.
1.3.3 Sensory Characteristics (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports	Web: No content relies solely on sensory characteristics of components such as shape, size, visual location, orientation, or sound.
1.4.1 Use of Color (Level A) Also applies to:	Web: Does Not Support	Web: A rating of Does Not Support has been given for the following reason:

Criteria	Conformance Level	Remarks and Explanations
2017 Section 508		Color is used as the sole indication that a button is disabled. This occurs on most pages on the site.
1.4.2 Audio Control (Level A) Also applies to: 2017 Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs)	Web: Supports	Web: No audio occurs on the site.
2.1.1 Keyboard (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Does Not Support	 Web: A rating of Does Not Support has been given for the following reasons: Custom context menus in tables are only accessible via mouse. Chevrons and Xs to close and expand accordions are only accessible via mouse. Tooltip information are only accessible via mouse. Elements for changing column display information (order, select columns, filter) do not receive keyboard focus. Static text elements in the Recent task table receive focus. The submenu for Actions does not have appropriate keyboard event handlers. When a keyboard-only user tries to navigate the dropdown options using the arrow keys to add a New Virtual Machine, the dropdown collapses as if the user had made a choice just by trying to navigate it.
2.1.2 No Keyboard Trap (Level A) Also applies to:	Web: Supports	Web: No keyboard trap occurs within the site.

Ven. Zijnhorte	Web: Time limits are communicated and the user
	is given the option to extend their time limit.
	Mah, Na hijaking paralling or auto undating
	Web: No blinking, scrolling, or auto-updating information occurs on the site.
	illioithation occurs on the site.
	Web: No flashing occurs on the site.
Veb: Supports	The state of the s
Veb: Does Not	Web: No skip to main content link is provided.
Support	vveb. No skip to main content link is provided.
Veh: Sunnorts	Web: Most pages include a descriptive page title.
vob. Oupports	vvob. Most pages include a descriptive page title.
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	/eb: Supports /eb: Supports /eb: Does Not

Criteria	Conformance Level	Remarks and Explanations
501 (Web)(Software)504.2 (Authoring Tool)602.3 (Support Docs)		
2.4.3 Focus Order (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Does Not Support	 Web: A rating of Does Not Support has been given for the following reason: After activating "Next" in a modal (e.g., Adding a new Data Store), focus remains on the Next button while content is updated above the button. Spawning a modal does not move focus into most modals. When modals are closed, focus does not return to the element that spawned them. Modals do not contain focus. Focus can be moved outside of the modal dialog.
2.4.4 Link Purpose (In Context) (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports with Exceptions	Web: Most links on the site include meaningful text. However, a rating of Supports with Exceptions has been given for the following reason: • The Start, Stop, Restart, and Actions links do not describe which machine they will restart programmatically. This is only indicated visually.
3.1.1 Language of Page (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Does Not Support	Web: The language of the pages is not set.
3.2.1 On Focus (Level A) Also applies to:	Web: Supports	Web: When any component receives focus, it does not initiate a change of context.

Criteria	Conformance Level	Remarks and Explanations
2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)		
3.2.2 On Input (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports with Exceptions	 Web: Most input elements do not change context without input. However, a rating of Supports with Exceptions has been provided for the following reason: When a keyboard-only user tries to navigate the dropdown options using the arrow keys, the dropdown collapses as if the user had made a choice just by trying to navigate it.
3.3.1 Error Identification (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports with Exceptions	Web: A rating of Supports with Exceptions has been given for the following reason: • The Install Update form does not provide an explicit error message at the beginning of the form after submit.
3.3.2 Labels or Instructions (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports with Exceptions	Web: Visual textual labels are provided to most inputs. However, a rating of Supports with Exceptions has been given for the following reason: • Instructions for running a virtual machine are not provided within the app.
4.1.1 Parsing (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Supports	Web: Elements are marked up properly across the site.

Criteria	Conformance Level	Remarks and Explanations
4.1.2 Name, Role, Value (Level A) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Does Not Support	 Web: A rating of Does Not Support has been given for the following reasons: Most inputs across the site do not have appropriate labels, such as the login details, checkboxes that occur on tables, and select elements for new Virtual Machine options. Folder structures does not have appropriate roles. A role of alert is repeated many times when the page loads.

Table 2: Success Criteria, Level AA

Notes.		
Criteria	Conformance Level	Remarks and Explanations
1.2.4 Captions (Live) (Level AA) Also applies to: 2017 Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs)	Web: Supports	Web: No live audio or video media occurs on the site.
1.2.5 Audio Description (Prerecorded) (Level AA) Also applies to: 2017 Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs)	Web: Supports	Web: No prerecorded video media occurs on the site.

Criteria	Conformance Level	Remarks and Explanations
1.4.3 Contrast (Minimum) (Level AA) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Does Not Support	Web: A rating of Does Not Support has been given for the following reason: Many pages have text that does not meet WCAG AA color contrast standards, such as: Warning text for failing to add a user to lockdown mode exceptions Text on Virtual Machines, Storage, and Networking are using the color #FFFFFF on a background color #B0B0B0 The links for Virtual Machines, Storage, and Networking are using the color #737373 on a background color #E7E9EE
1.4.4 Resize text (Level AA) Also applies to: 2017 Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs)	Web: Supports	Web: Text can be resized up to 200% without loss of content.
1.4.5 Images of Text (Level AA) Also applies to: 2017 Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs)	Web: Supports	Web: Images of text are VMware logos, which are exempt.
 2.4.5 Multiple Ways Also applies to: 2017 Section 508 501 (Web)(Software) – Does not apply to non-web software 504.2 (Authoring Tool) 	Web: Supports	Web: There are multiple ways to reach each page, except in cases where a page is the result of a series of steps.

Criteria	Conformance Level	Remarks and Explanations
 602.3 (Support Docs) – Does not apply to non-web docs 		
2.4.6 Headings and Labels (Level AA) Also applies to: 2017 Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs)	Web: Supports	Web: Visual headings and labels describe their topics.
2.4.7 Focus Visible (Level AA) Also applies to: 2017 Section 508 • 501 (Web)(Software) • 504.2 (Authoring Tool) • 602.3 (Support Docs)	Web: Does Not Support	 Web: A rating of Does Not Support has been given for the following reasons: When navigating with the keyboard, an indication of focus can remain on one element even after focus has moved. Focus is very faint on Datastores, Adapters, Devices and Persistent Memory tabs. Many controls lack a visual indication of focus.
3.1.2 Language of Parts (Level AA) Also applies to: 2017 Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs)	Web: Supports	Web: Language does not change inline on the site.
 3.2.3 Consistent Navigation (Level AA) Also applies to: 2017 Section 508 501 (Web)(Software) – Does not apply to non-web software 504.2 (Authoring Tool) 602.3 (Support Docs) – Does not apply to non-web docs 	Web: Supports	Web: Navigation mechanisms remain consistent across the site.

Criteria	Conformance Level	Remarks and Explanations
 3.2.4 Consistent Identification (Level AA) Also applies to: 2017 Section 508 501 (Web)(Software) – Does not apply to non-web software 504.2 (Authoring Tool) 602.3 (Support Docs) – Does not apply to non-web docs 	Web: Supports	Web: Navigation mechanisms and controls are consistently identified across the site.
3.3.3 Error Suggestion (Level AA) Also applies to: 2017 Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs)	Web: Supports	Web: When errors are identified, suggestions are provided to correct errors.
3.3.4 Error Prevention (Legal, Financial, Data) (Level AA) Also applies to: 2017 Section 508 501 (Web)(Software) 504.2 (Authoring Tool) 602.3 (Support Docs)	Web: Supports	Web: If data is going to change upon submitting a form, the change can be reversed.

2017 Section 508 Report

Notes:

Chapter 3: Functional Performance Criteria (FPC)

Criteria	Conformance Level	Remarks and Explanations
302.1 Without Vision	Does Not Support	Most of the product is not operable without vision. As noted in 1.1.1 Non-text Content , the graph for monitoring performance includes information about time that isn't reflected in the table. Also, multiple images across the site lack alternative text, including the green arrow in the Install Update modal, and the VMware and ESXi logo images.
302.2 With Limited Vision	Does Not Support	Most of the product is not operable with limited vision. As noted in 1.4.3 Contrast (Minimum) , most pages have text that does not meet WCAG AA color contrast standards, such as for VM links that occur across the site. Additionally, as noted in 2.4.7 Focus Visible , there is a loss of visual indication of focus on each page.
302.3 Without Perception of Color	Does Not Support	Most of the product is not operable without the perception of color. As noted in 1.4.1 Use of Color1.4.1 Use of Color , color is used as the sole visual means of communicating that buttons are disabled across the site.
302.4 Without Hearing	Supports	No audio occurs on the site.
302.5 With Limited Hearing	Supports	No audio occurs on the site.
302.6 Without Speech	Supports	No speech is required by the site.
302.7 With Limited Manipulation	Does Not Support	Users with limited manipulation may have different requirements for using a site. However, as noted in 2.1.1 Keyboard , many elements do not activate via keyboard and several inactive elements occur in the focus order. Additionally, focus isn't managed properly when opening and closing components.
302.8 With Limited Reach and Strength	Does Not Support	Users with limited reach and strength may have different requirements for using a site. As noted in 2.1.1 Keyboard, many elements do not activate via keyboard and several inactive elements occur in the

Criteria	Conformance Level	Remarks and Explanations
		focus order. Additionally, focus isn't managed properly when opening and closing components.
302.9 With Limited Language, Cognitive, and Learning Abilities	Supports with Exceptions	Users with limited cognitive ability have varying needs and may not experience the same issues. As described in 3.3.2 Labels or Instructions, instructions for managing a virtual machine environment are not provided within the site.

Chapter 5: Software

Criteria	Conformance Level	Remarks and Explanations
501.1 Scope – Incorporation of WCAG 2.0 AA	See WCAG 2.0 section	See information in WCAG section
502 Interoperability with Assistive Technology	Heading cell – no response required	Heading cell – no response required
502.2.1 User Control of Accessibility Features	Not Applicable	The product is not platform software.
502.2.2 No Disruption of Accessibility Features	Supports	The product does not interrupt the accessibility features of Windows 10.
502.3 Accessibility Services	Heading cell – no response required	Heading cell – no response required
502.3.1 Object Information	Does Not Support	As described in 4.1.2 Name, Role, Value , there are many inputs missing a programmatic name.
502.3.2 Modification of Object Information	Supports	The site supports changing of object information.
502.3.3 Row, Column, and Headers	Supports	Tables on the site have proper mark up.
502.3.4 Values	Supports	Values are rendered to assistive technology.
502.3.5 Modification of Values	Supports	The product supports the modification of values through assistive technology.
502.3.6 Label Relationships	Does Not Support	As described in 4.1.2 Name, Role, Value , there are many inputs missing a programmatic name.

Criteria	Conformance Level	Remarks and Explanations
502.3.7 Hierarchical Relationships	Does Not Support	As described in 1.3.1 Info and Relationships , there are implicit headings on most pages. Additionally, folder structures are not communicated programmatically.
502.3.8 Text	Supports	Text is exposed to assistive technology.
502.3.9 Modification of Text	Supports	Text can be modified by assistive technology.
502.3.10 List of Actions	Supports	Possible actions are described properly by assistive technology.
502.3.11 Actions on Objects	Supports	The product supports assistive technology executing actions on objects.
502.3.12 Focus Cursor	Does Not Support	As described in 2.4.7 Focus Visible , focus is not visible for some elements on each page.
502.3.13 Modification of Focus Cursor	Supports	The product allows assistive technology to move or modify focus, insertion point, selection.
502.3.14 Event Notification	Supports	The product notifies assistive technology of events.
502.4 Platform Accessibility Features	Not Applicable	The product is not platform software.
503 Applications	Heading cell – no response required	Heading cell – no response required
503.2 User Preferences	Supports	The product supports platform accessibility settings, such as native zoom settings and high contrast mode.
503.3 Alternative User Interfaces	Not Applicable	The product is not assistive technology.
503.4 User Controls for Captions and Audio Description	Heading cell – no response required	Heading cell – no response required
503.4.1 Caption Controls	Supports	The product does not have audio content.
503.4.2 Audio Description Controls	Supports	The product does not have audio content.
504 Authoring Tools	Heading cell – no response required	Heading cell – no response required
504.2 Content Creation or Editing (if not authoring tool, enter "not applicable")	See WCAG 2.0 section	See information in WCAG section
504.2.1 Preservation of Information Provided for Accessibility in Format Conversion	Not Applicable	The product is not an authoring tool.

Criteria	Conformance Level	Remarks and Explanations
504.2.2 PDF Export	Not Applicable	The product is not an authoring tool.
504.3 Prompts	Not Applicable	The product is not an authoring tool.
504.4 Templates	Not Applicable	The product is not an authoring tool.

Chapter 6: Support Documentation and Services

Notes: Not Tested

Criteria	Conformance Level	Remarks and Explanations
601.1 Scope	Heading cell – no response required	Heading cell – no response required
602 Support Documentation	Heading cell – no response required	Heading cell – no response required
602.2 Accessibility and Compatibility Features	Applicable - Not Tested	Not Tested
602.3 Electronic Support Documentation	See WCAG 2.0 section	See information in WCAG section
602.4 Alternate Formats for Non-Electronic Support Documentation	Applicable - Not Tested	Not Tested
603 Support Services	Heading cell – no response required	Heading cell – no response required
603.2 Information on Accessibility and Compatibility Features	Applicable - Not Tested	Not Tested
603.3 Accommodation of Communication Needs	Applicable - Not Tested	Not Tested